

Recombinant Human FDPS protein, His & GST-tagged

Cat. No. FDPS-1150H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FDPS aa. (Met1~Lys419 (Accession # P14324) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Lys419
Description	This gene encodes an enzyme that catalyzes the production of geranyl pyrophosphate and farnesyl pyrophosphate from isopentenyl pyrophosphate and dimethylallyl pyrophosphate. The resulting product, farnesyl pyrophosphate, is a key intermediate in cholesterol and sterol biosynthesis, a substrate for protein farnesylation and geranylgeranylation, and a ligand or agonist for certain hormone receptors and growth receptors. Drugs that inhibit this enzyme prevent the post-translational modifications of small GTPases and have been used to treat diseases related to bone resorption. Multiple pseudogenes have been found on chromosomes 1, 7, 14, 15, 21 and X. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 78.3kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 5.8.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	FDPS farnesyl diphosphate synthase [Homo sapiens (human)]
Official Symbol	FDPS
Synonyms	FDPS; farnesyl diphosphate synthase; FPS; FPPS; POROK9; farnesyl pyrophosphate synthase; (2E,6E)-farnesyl diphosphate synthase; FPP synthase; FPP synthetase; farnesyl pyrophosphate synthetase, dimethylallyltranstransferase, geranyltranstransferase

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Gene ID	2224
mRNA Refseq	NM_001135821.1
Protein Refseq	NP_001129293.1
UniProt ID	P14324

SDS-PAGE

